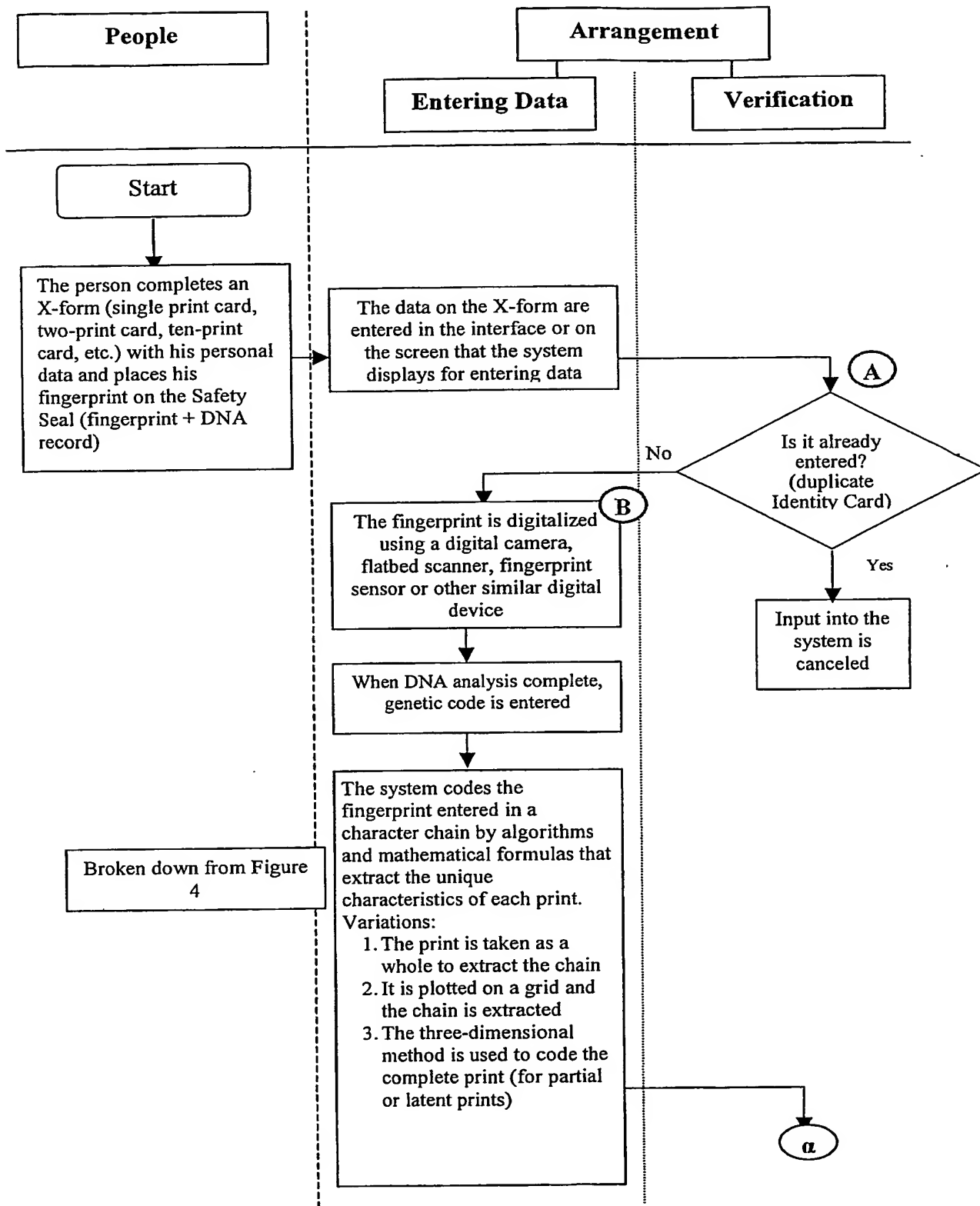
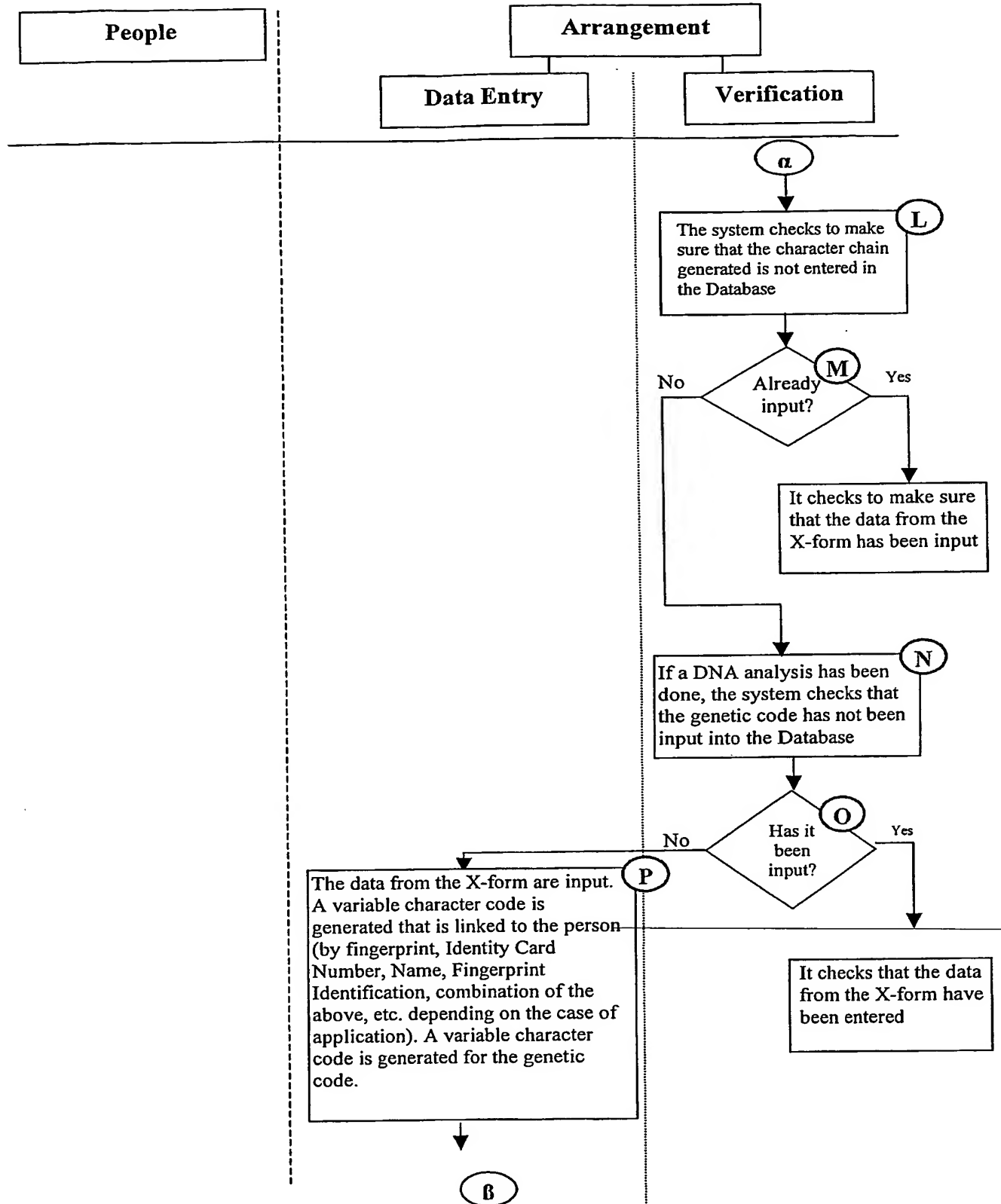


Figure 1A**Step 1) Entering a person's data in the database**



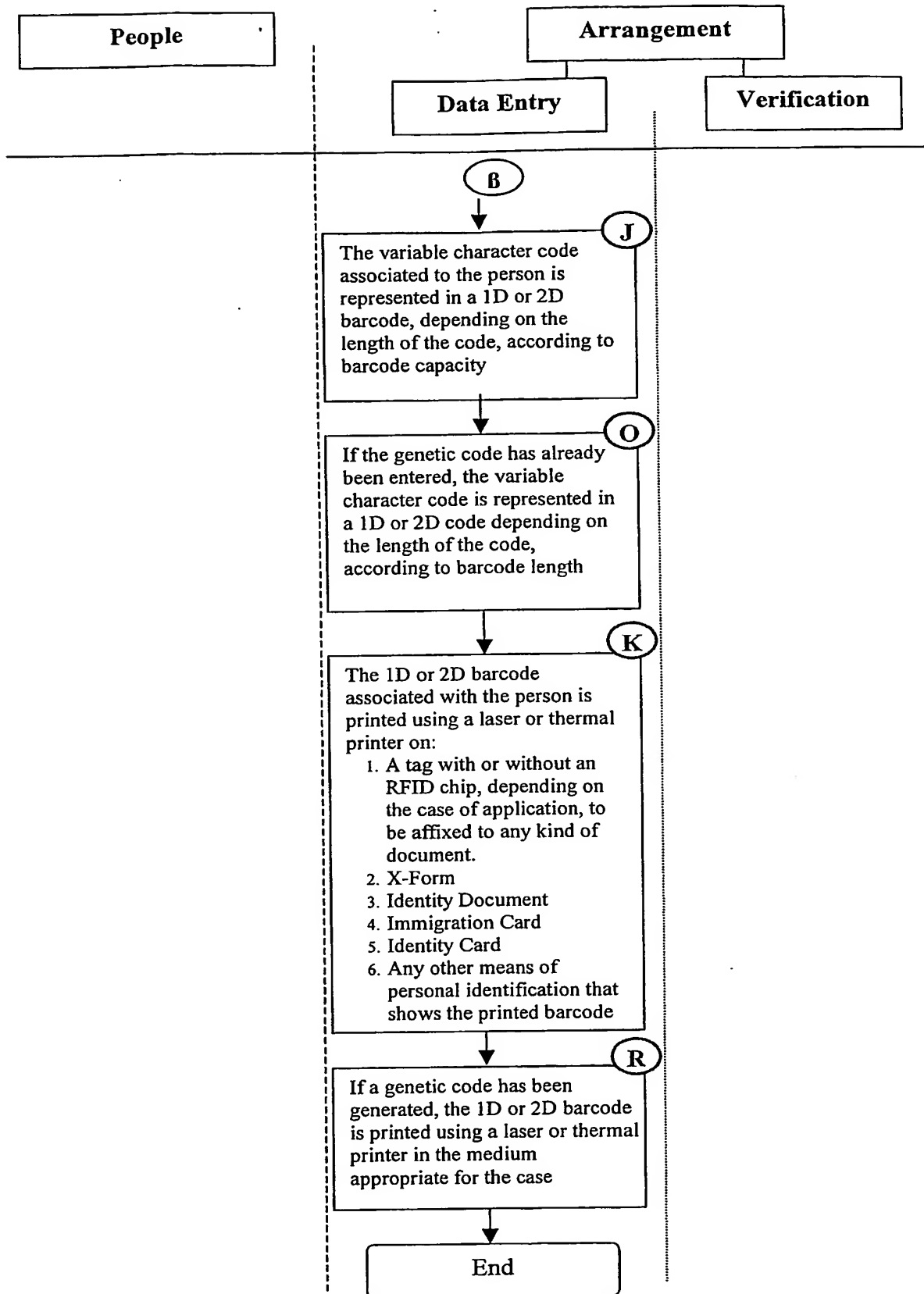


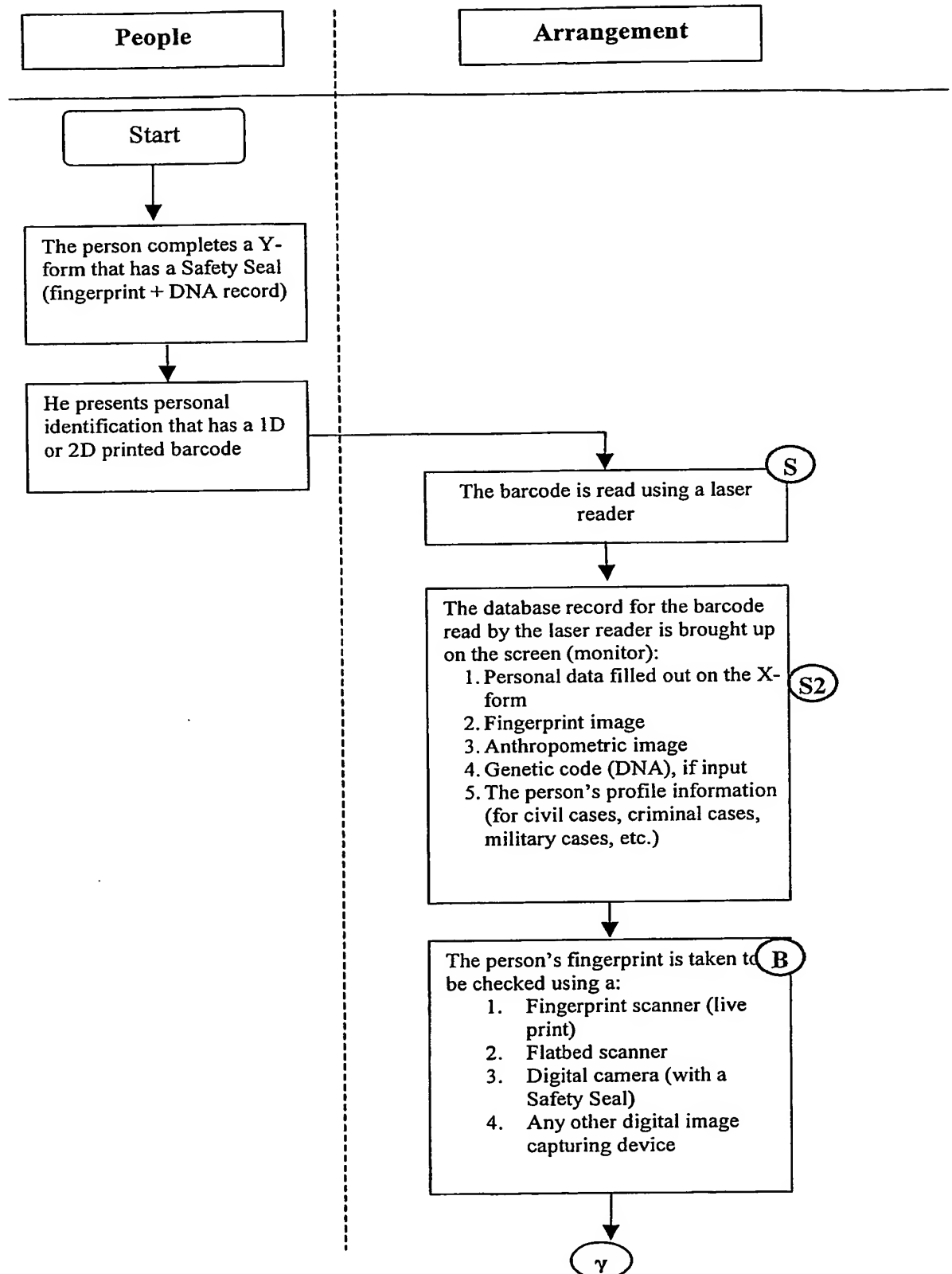
Figure 2A**Step 2) Verifying a Person's Identity**

Figure 2B

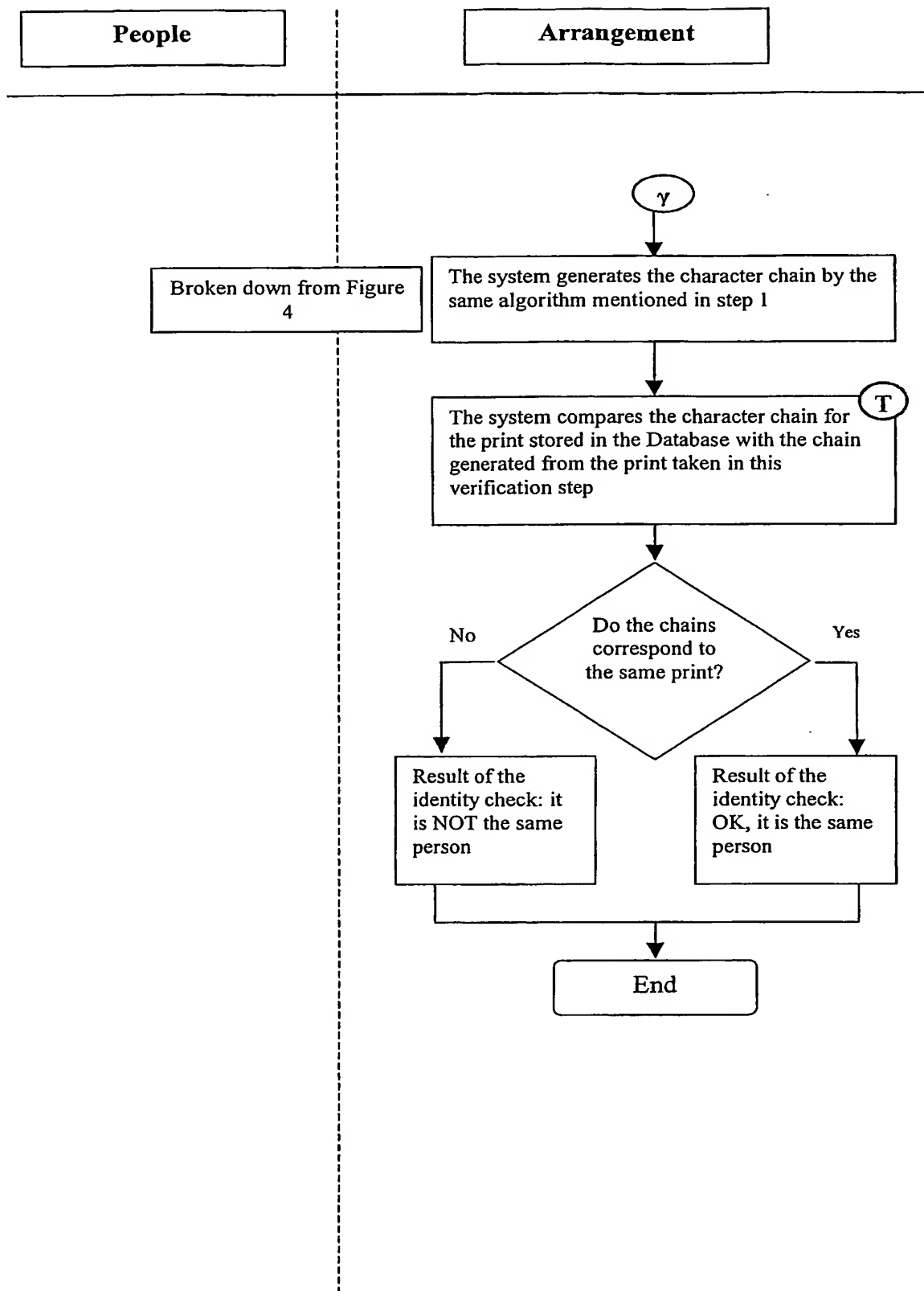


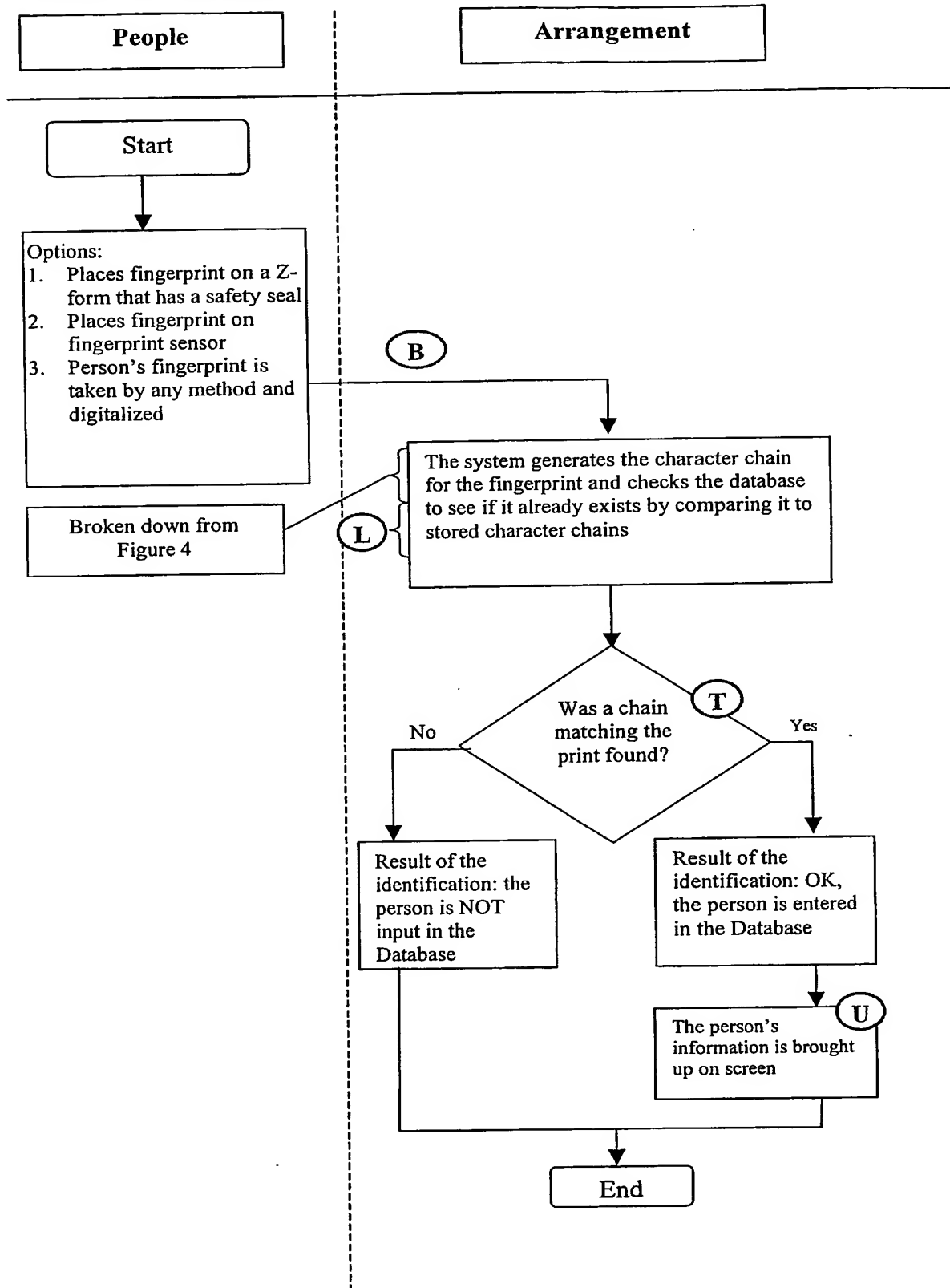
Figure 3A**Step 3) Identifying a Person by a fingerprint**

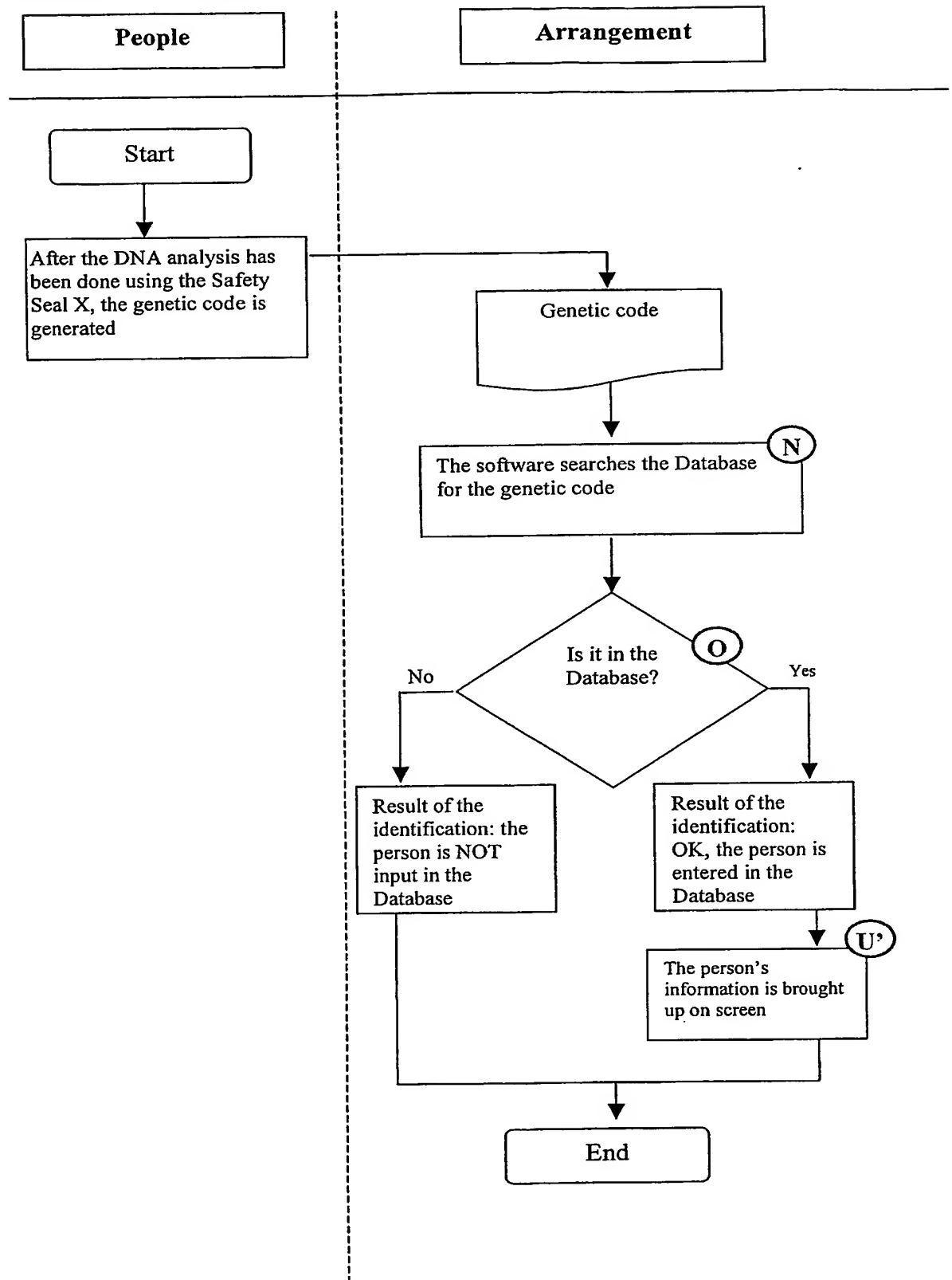
Figure 3B**Step 3) Identifying a Person by DNA**

Figure 4

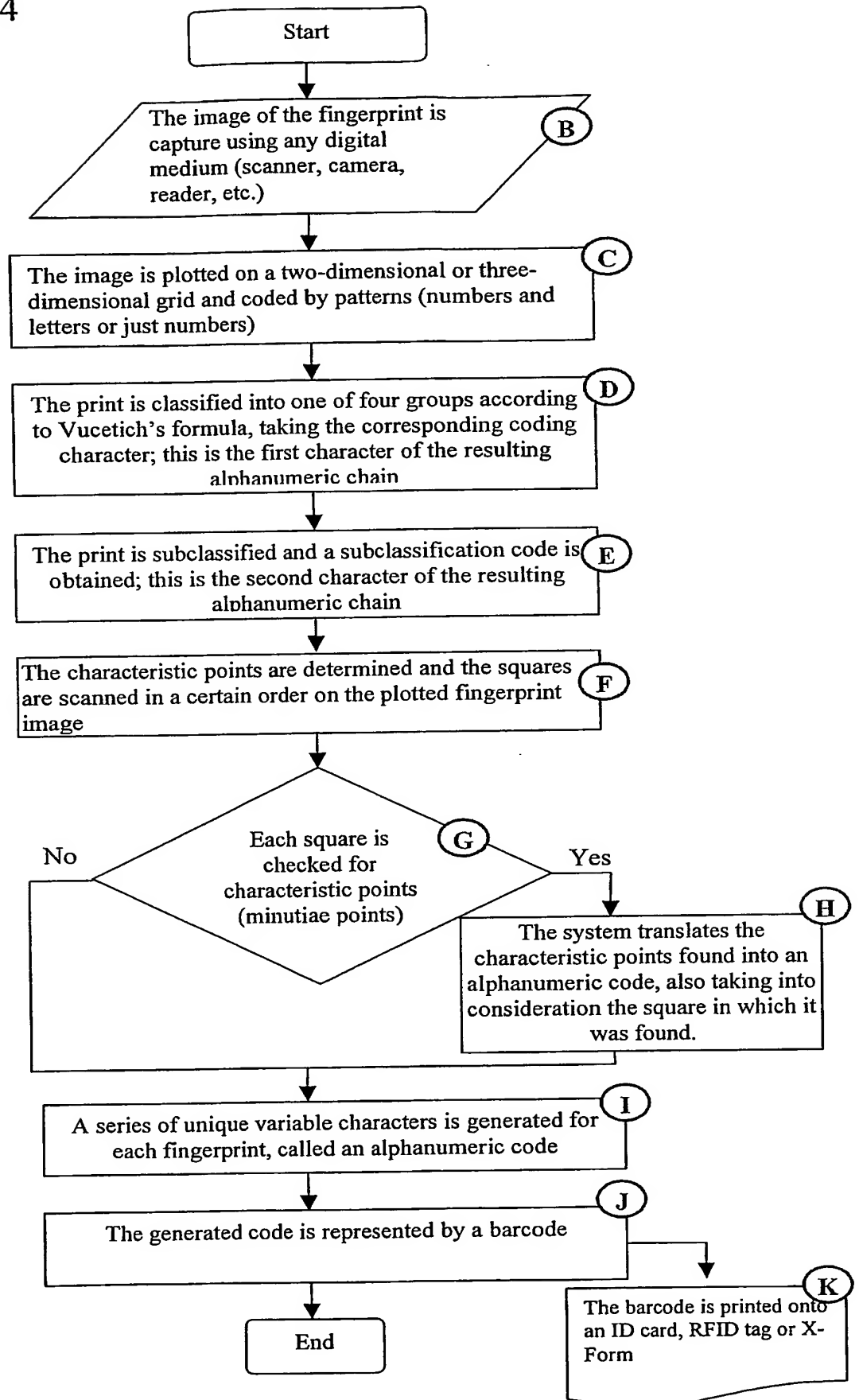


Figure 5

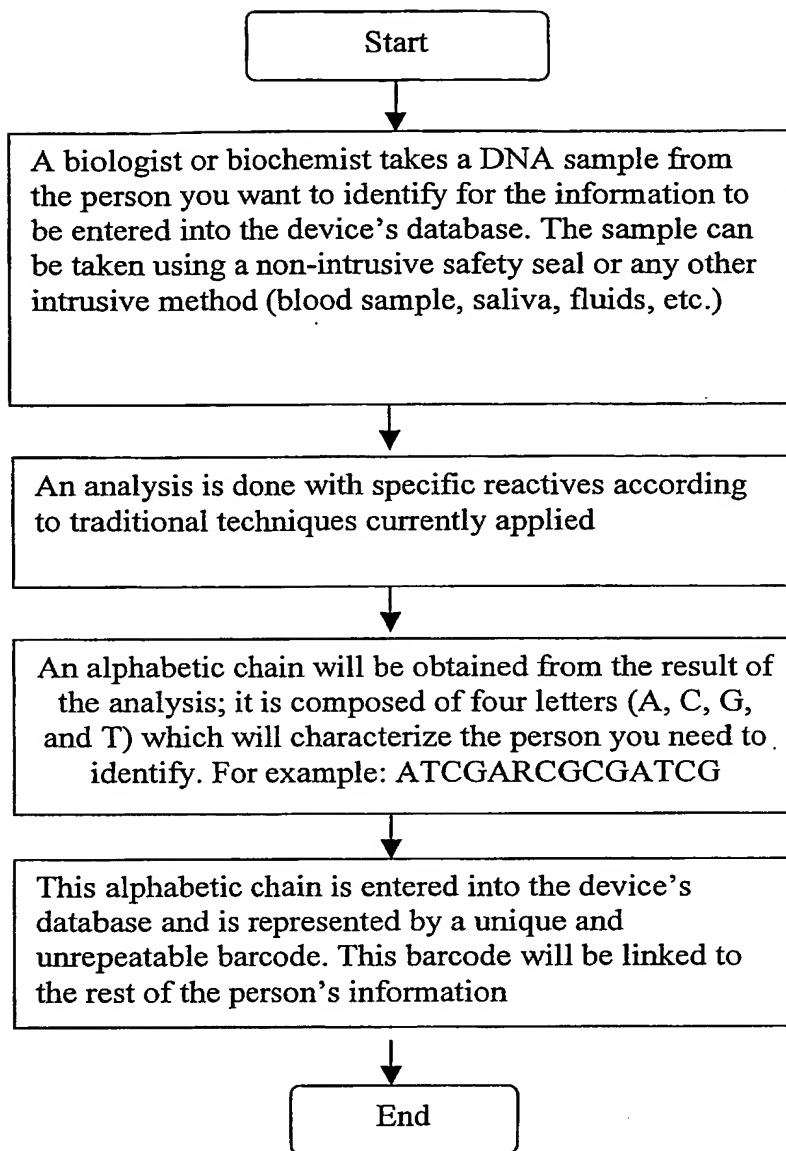


Figure 6

Infograph of a fingerprint and its characteristic points (minutiae points)



MARKED CHARACTERISTIC POINTS

The image shows the following points: 1, 2, 3 Ending; 4 Bifurcation; 5 Ending; 6 Deviation; 7 Bifurcation (lower outer branch cut); 8 Interruption; 9 Large fragment; 10 Large island; 11 Ending; 12 Bifurcation (inner upper branch cut); 13 Ending; 14 Interruption; 15 Fragment; 16 Bifurcation (outer branch cut); 17 Dot; 18 Large island; 19 Convergence; 20 Fragment; 21 Convergence; 22 Convergence; 23 Ending; 24 Interruption; 25 Ending; 26 Ending; 27 Small fragment; 28 Ending; 29 Bifurcation; 30 Bifurcation; 31 Convergence; 32 Ending; 33 Bifurcation; 34 Ending; 35 Transversal; 36 Bifurcation; 37, 38, 39 Ending; 40 Convergence (outer branch cut); 41 Bifurcation; 42 Large island; 43 Ending; 44 Transversal; 45 Ending; 46, 47, 48 Convergence; 49 Small fragment; 50 Convergence.

Figure 7

INFOGRAPH OF GRID MODEL

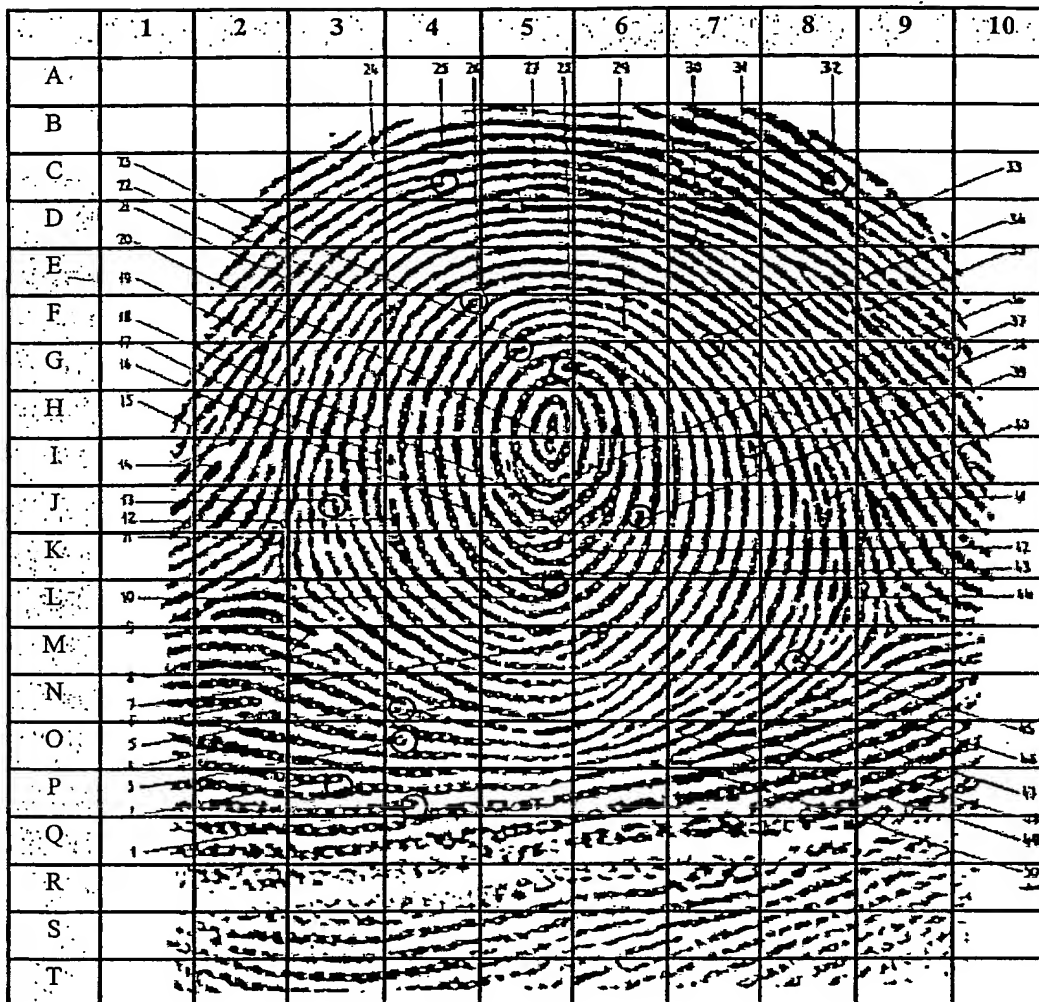
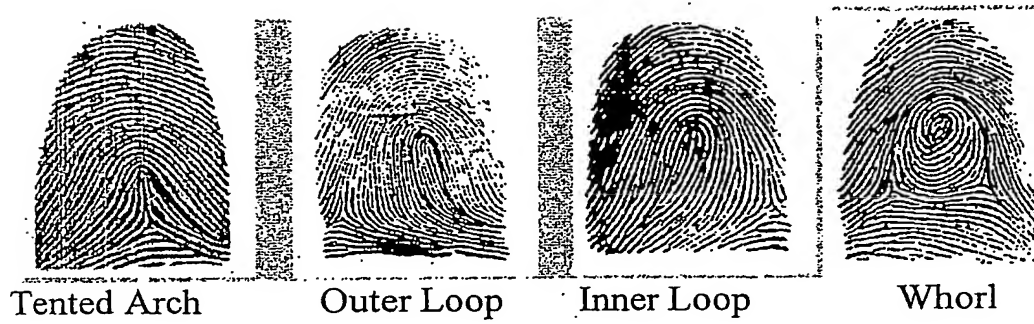


Figure 8



TYPE	THUMBS	OTHER FINGERS
Arch	A	1
Inner Loop	I	2
Outer Loop	E	3
Whorl	V	4

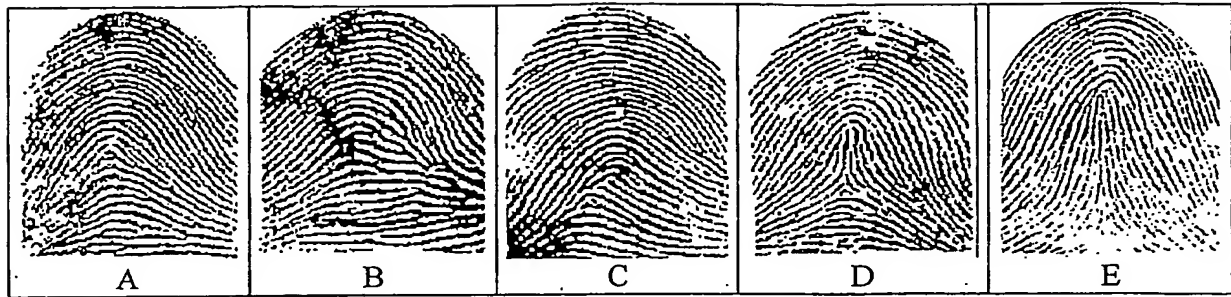


Figure 9

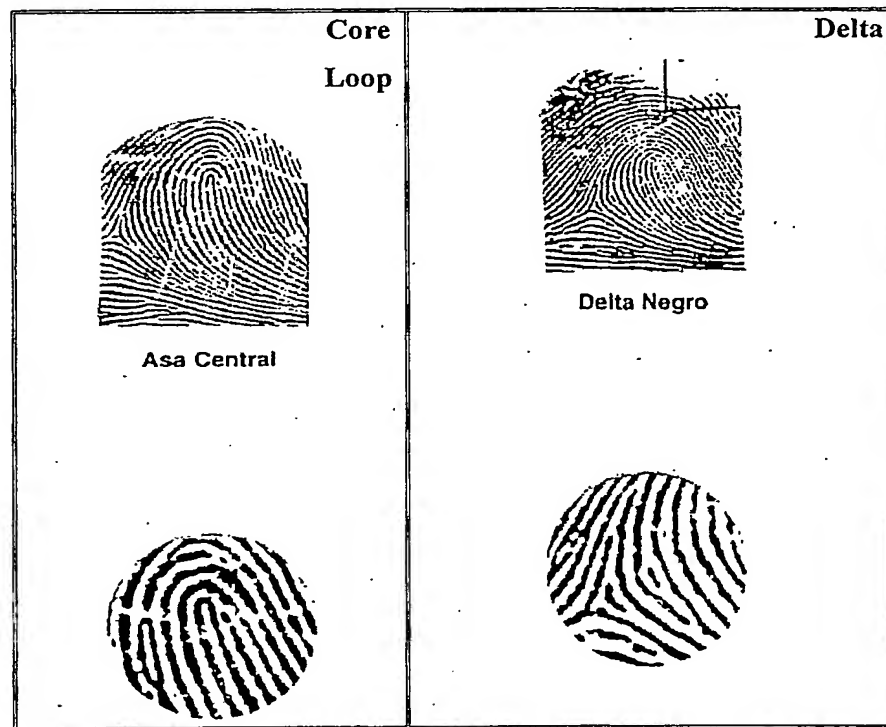


Figure 10

[text in Figure 5]
Delta Negro = Black Delta

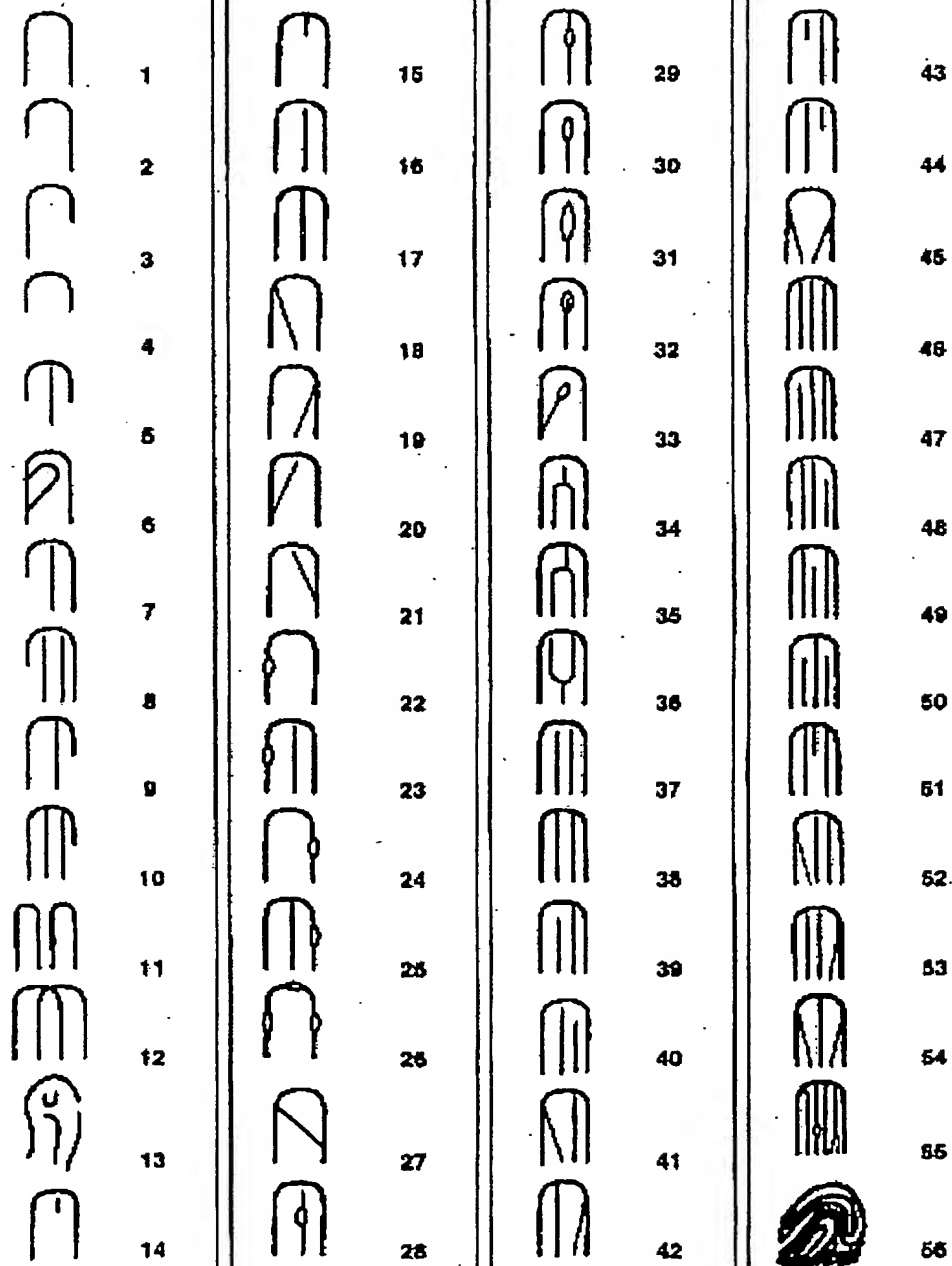


Figure 11

Figure 12A

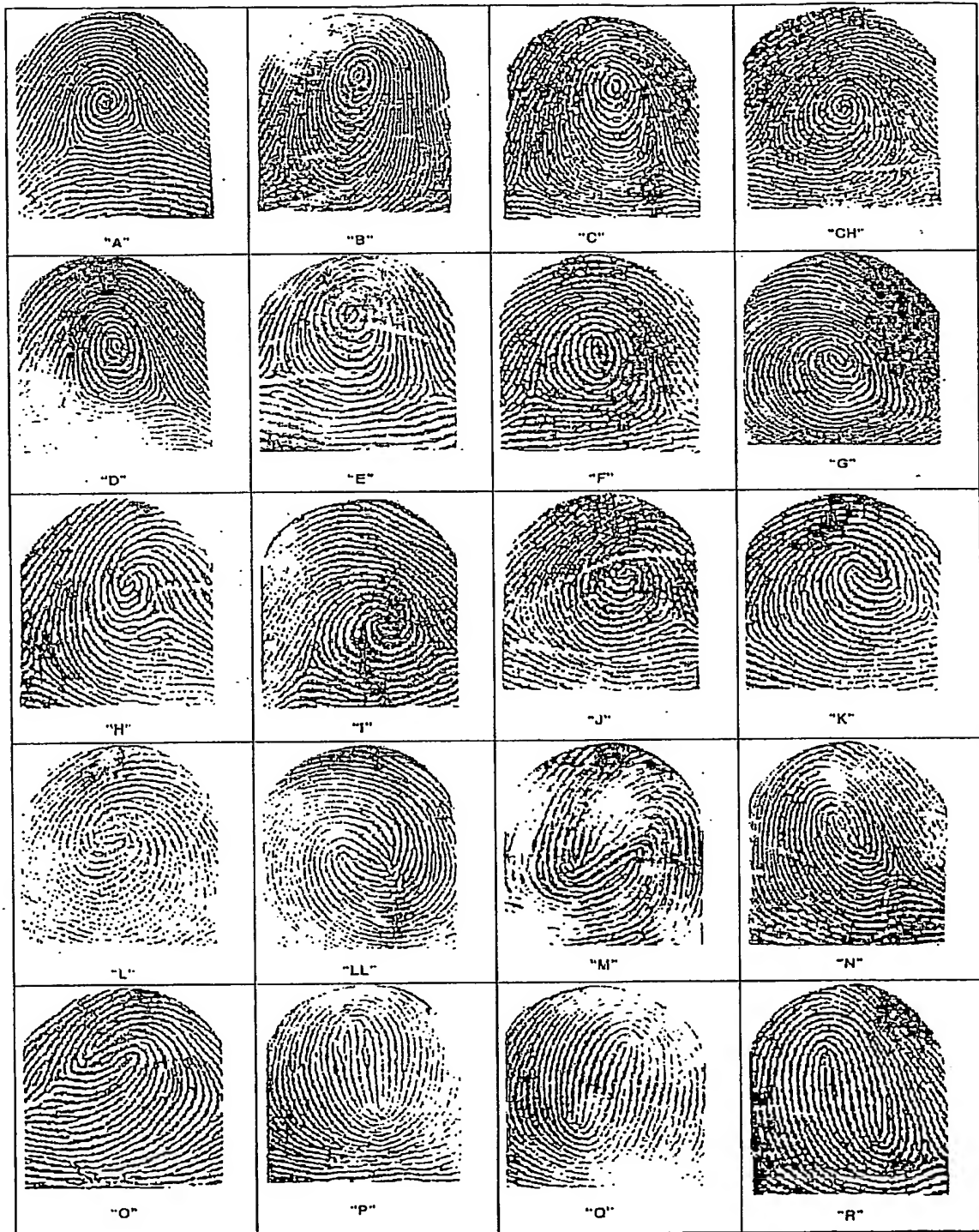
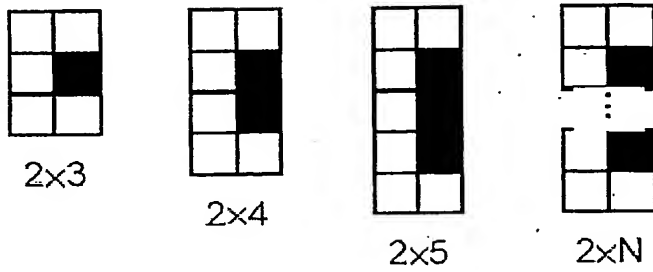












Figure 12B



Minutiae Patterns

Figure 13



REPUBLICA ARGENTINA MINISTERIO DEL INTERIOR POLICIA FEDERAL ARGENTINA SUPERINTENDENCIA TECNICA SISTEMA DACTILOSCOPICO ARGENTINO CREADO POR JUAN VICETICH EN 1961		MANO DERECHA				
		 PULGAR	 INDICES	 MEDIOS	 ANULARES	 MEQUEROS
MANO IZQUIERDA		 PULGAR	 INDICES	 MEDIOS	 ANULARES	 MEQUEROS

Informado por: _____




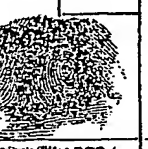






Cala No: _____

F 450-A

Figure 14



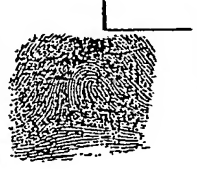






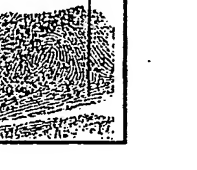
Digitalized Fingerprint Card

Image 1

REPUBLICA ARGENTINA MINISTERIO DEL INTERIOR POLICIA FEDERAL ARGENTINA SUPERINTENDENCIA TECNICA SISTEMA DACTILOSCOPICO ARGENTINO CREADO POR JUAN VUCETICH EN 1891	MANO DERECHA						Caja N° Informada por
	MANO IZQUIERDA						
		V	H	3	H	H	
		V	H	2	2	2	



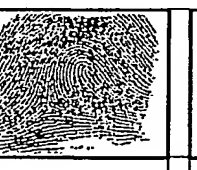
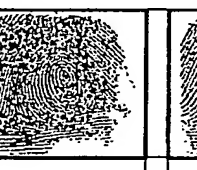





Multiple Segmentation

Image 2

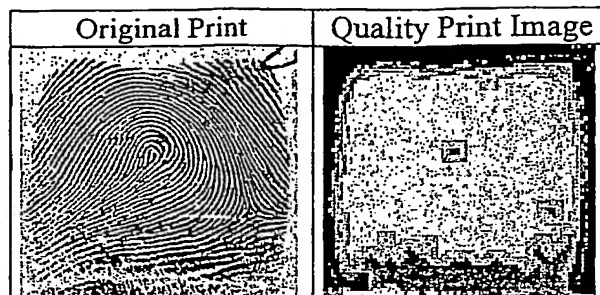
Individual Segmentation

Image 3

Quality

Image 4



Each 8 x 8 block of pixels is assigned a value—0, 1, 2, 3, or 4—representing the quality level of the block. In turn, each value represents a quality percentage and is shown graphically with a color, varying between black and white:

0 = 0 % = black

1 = 25 % = dark gray

2 = 50 % = medium gray

3 = 75 % = light gray

4 = 100 % = white

To obtain the general quality percentage or level of the print, the following formula is applied:

$$\sum \text{values of all blocks} / \text{Number of blocks}$$

Prints with a Marked Core

Image 5

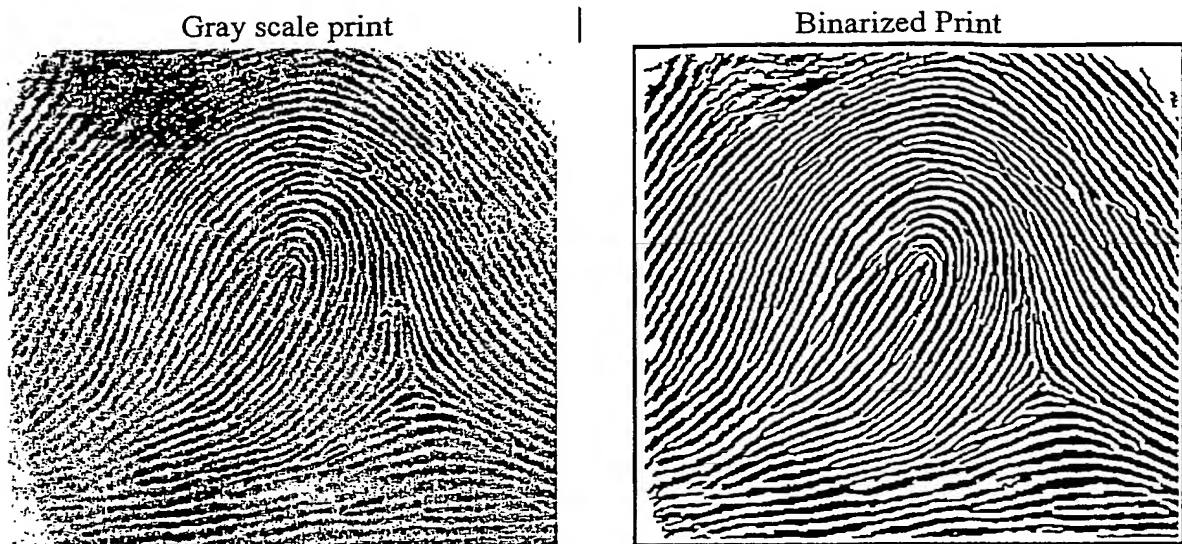


+ = Core

+ = Delta

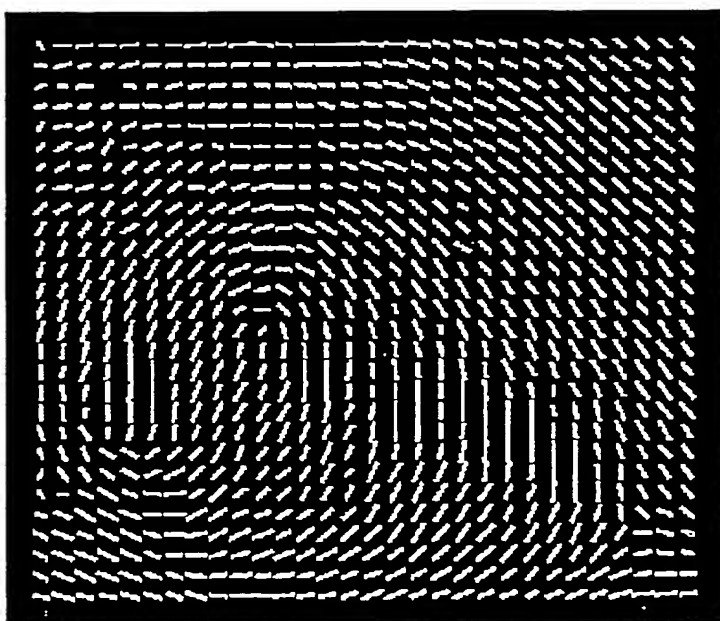
Binarized Print

Image 6



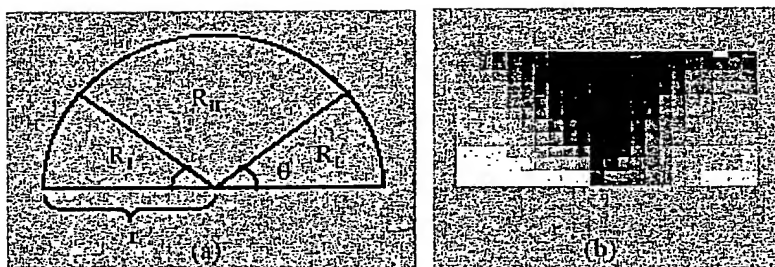
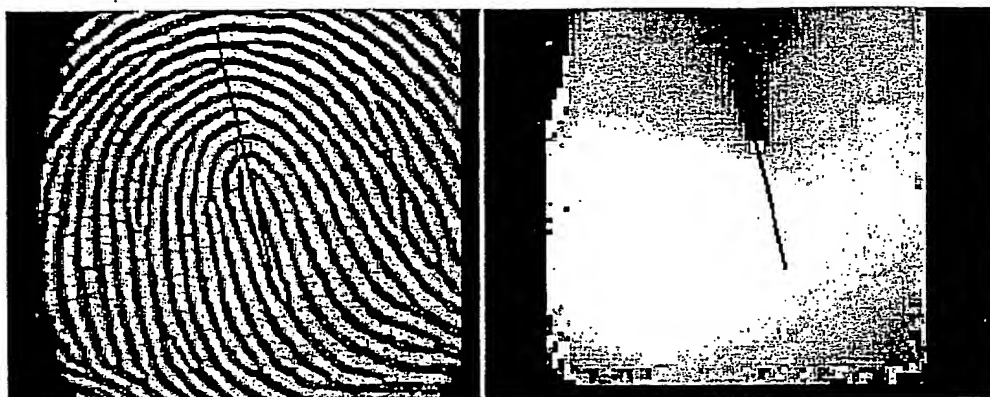
Local Orientation Graph

Image 7



General Orientation Graph of a Print

Image 8



- (a) The circular mask to extract the central point of the print
(b) Map generated from applying the circular mask

	A	
	B	
	C	
	D	
	E	
	F	
	G	
	H	
	I	
	J	
	K	
	L	
	M	
	N	
	O	
	P	
	Q	
	R	
	S	
	T	
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1		

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